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RANBAXY I.P. DEPARTMENT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference RLL-292W0		of Transmittal of International Search Report /220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/IB 03/01333	10/04/2003	
Applicant		
RANBAXY LABORATORIES LIMI	TED	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Au ansmitted to the International Bureau.	thority and is transmitted to the applicant
This International Search Report consists [X] It is also accompanied by	of a total of sheets. a copy of each prior art document cited in thi	s report.
Basis of the report		
	international search was carried out on the ba ess otherwise indicated under this item.	asis of the international application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of	the international application furnished to this
b. With regard to any nucleotide an was carried out on the basis of the		international application, the international search
	nal application in written form.	
	rnational application in computer readable for	rm.
furnished subsequently to	this Authority in written form.	
	this Authority in computer readble form.	
the statement that the sub international application a	sequently furnished written sequence listing of stilled has been furnished.	does not go beyond the disclosure in the
the statement that the info furnished	ormation recorded in computer readable form	is identical to the written sequence listing has been
2. Certain claims were four	nd unsearchable (See Box I).	
3. Unity of invention is lack	king (see Box II).	
4. With regard to the title,		
X the text is approved as sul	bmitted by the applicant.	
the text has been establish	hed by this Authority to read as follows:	•
5. With regard to the abstract,		
the text is approved as sul	bmitted by the applicant	
the text has been establish		ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be publi	shed with the abstract is Figure No.	
as suggested by the applic	cant.	X None of the figures.
because the applicant faile	ed to suggest a figure.	_
because this figure better	characterizes the invention.	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 03/01333

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

This invention generally relates to derivatives of substituted azabicyclo hexanes of formula I. The compounds of this invention can function as muscarinic receptor antagonists, and can be used for the treatment of various diseases of the respiratory, urinary and gastrointestinal systems mediated through muscarinic receptors. The invention also relates to a process for the preparation of the compounds of the present invention, pharmaceutical compositions containing the compounds of the present invention and the methods of treating the diseases mediated through muscarinic receptors.

$$Ar \xrightarrow{R_1} W \xrightarrow{C} X \xrightarrow{Y} W \xrightarrow{R_3} W \xrightarrow{R_3} W \xrightarrow{R_4} W \xrightarrow{R_5} W \xrightarrow{R_6} W \xrightarrow{$$

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PCT/IB 03/01333

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IPC 7	iFICATION OF SUBJECT MATTER A61K31/403 C07D209/52 A61P1/0	0 A61P11/00	A61P13/00			
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	o International Patent Classification (IPC) or to both national classific	cation and IPC				
	ocumentation searched (classification system followed by classificat	tion symbols)	· · · · · · · · · · · · · · · · · · ·			
IPC 7	CO7D					
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the f	fields searched .			
Electronic o	data base consulted during the international search (name of data ba	ase and, where practical, search term	ns used)			
EPO-In	ternal, WPI Data, PAJ, CHEM ABS Dat	a				
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	ENTS CONSIDERED TO BE RELEVANT	Investigation of the second of	Deliver March 18 to March 18 t			
Category °	Citation of document, with indication, where appropriate, of the re	evani passages	Relevant to daim No.			
А	EP 0 863 141 A (BANYU PHARMA CO 9 September 1998 (1998-09-09) claim 1	LTD)	1–17			
А	US 6 307 060 B1 (WAELBROECK MAGAI 23 October 2001 (2001-10-23) see formula I, column 1 and parag column 2					
5.00						
	ner documents are listed in the continuation of box C.	Patent family members are	e listed in annex.			
	tegories of cited documents:	*T* later document published after the or priority date and not in conflict.	ct with the application but			
consid	considered to be of particular relevance "E" earlier document but published on or after the international					
filing date cannot be considered novel or cannot be considered to						
L document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another cited to establish the publication date of another creating the companion of the c						
O docume	*O* document referring to an oral disclosure, use, exhibition or cannot be considered to involve an inventive step when the document is combined with one or more other such docu—					
	neans ent published prior to the international filing date but han the priority date claimed	ments, such combination being in the art. *&* document member of the same a	•			
	actual completion of the international search	Date of mailing of the internation				
1	4 July 2003	30/07/2003	·			
Name and n	nailing address of the ISA	Authorized officer				
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tol (23, 70) 240, 2040, Tx, 21,651,000 pt					
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Bérillon, L				

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1-17 relate to compounds defined by reference to a desirable characteristic or property, namely metabolites of formula I. The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compounds by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compounds having the structure of Formula I and their pharmaceutically acceptable solvates, esters, enantiomers, diastereoisomers, N-oxides or polymorphs.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

International application No. PCT/IB 03/01333

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. χ	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 4-7 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. X	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	see FURTHER INFORMATION sheet PCT/ISA/210
з. 🔲	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark (The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTE INTENDED SEARCH REPORT

Information on patent family members

PCT/IB 03/01333

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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